

ASPSF
20.2.4.4 VII

POINT RUSTON

5219 N. SHIRLEY ST. SUITE 100 RUSTON, WA 98407

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AUG 17 2012

OFFICE OF
ENVIRONMENTAL CLEANUP

August 15, 2012

Mr. Kevin L. Rochlin
Remedial Project Manager
U.S. Environmental Protection Agency
Region 10
1200 Sixth Avenue, ECL-111
Seattle, WA 98101

RE: Monthly Report: No. 194, July 2012
Operable Unit No. 02 - Asarco Tacoma Smelter Site

Dear Mr. Rochlin:

Point Ruston is submitting this monthly report per the requirements of paragraph 48 of the Consent Decree for the above referenced site. The report is organized to follow item (a) through (g) of this paragraph.

If you have any questions, please call me at (253) 752-2185, extension 236.

Sincerely,



Loren Cohen
Manager of Legal Affairs

Attachment (2 copies)

cc: Steve Teel - Washington Department of Ecology
Evan Griffiths - CH2MHill (2 copies)
Leslie Ann Rose - Citizens for a Healthy Bay

USEPA SF



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Monthly Report 194, July 2012

Operable Unit 02

Asarco Tacoma Smelter Site

A. *Actions taken to achieve compliance with the Consent Decree during the previous month.*

1. Point Ruston personnel met with EPA management on July 18 and July 31 to discuss the status of the cleanup project. Point Ruston hosted a meeting with EPA site management on July 30 to review status of the occupancy documents, including the OMMP, SDOP, updated Phase 1 CMP, TIC & SWP – this meeting reviewed Point Ruston's draft responses to EPA comments on these plans.
2. Metro Parks Tacoma approved a settlement agreement on July 23 regarding the cap on the Slag Peninsula that will allow the cleanup and ancillary related work to be completed. Point Ruston is currently finalizing negotiations for this work and will be submitting a plan to EPA which it will request an expedited and bifurcated approval.
3. Continued negotiations with DNR and the State of Washington regarding aquatic land RA of state-owned aquatic land sediments related to monies appropriated for cleanup - are preparing final designs to allow the work to be completed during the current fish window, and plan to submit plans to EPA in the near future in coordination with the State and DNR.
4. Completed responses to the Temporary Impervious Cap Plan, Site Wide Storm Water Plan, amended Phase I CMP, OMMP and SDOP. Plan to re-submit during a real-time submittal review with EPA, per agreement with EPA management. Waterwalk CMP is approved, and work is being conducted. Comment response on the Construction Health and Safety Plan will be forthcoming.
5. Conducting Air Monitoring per the approved plan under the CH&SP, as well as implementing the new standards under the Sequence of Development and Occupancy Plan, including testing TSP and tracking TSP results to determine trends and averages related to contaminants - also Point Ruston purchased two additional hi-vol air monitors, which will be deployed per the SDOP air monitoring plan.
6. Ruston Way roadway and sidewalks are open to the public. Baltimore Street and Yacht Club Road remain to be opened by the Town of Ruston. The west-end of the tunnel is fully capped and closed, and Point Ruston is planning to begin to work associated with the east-end, to begin during the 2012 work season.
7. Continued construction of the improvements associated with Phase 1 CMP; constructing underground utilities and RA along Main Street (along the Ph. 1 building frontage), including all utility connections.
8. Continued construction of 9-acre Waterwalk area, preparing subgrade and storm water improvements, and other ancillary utilities, landscaping and other improvements. Preparing for the completion of Stage 1, which will be concluded by early September. Upon finalization of the SDOP, the Waterwalk

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CMP will be updated to include the occupancy, health and safety, and institutional controls, and Point Ruston plans to request a controlled occupancy of the stage 1 area.

9. Post-construction report of Shoreline Armoring RA drafted and to be submitted as part of the MICMP Post-RA Construction Report.
10. Site wide maintenance being conducted, including replacement of silt fences and exclusion zones fences, removal of un-used/un-needed fencing, as well as other required CH&SP BMPs. On-going site maintenance and monitoring continues, including all requirements under the Site Wide Construction Health and Safety Plan.
11. Continued weekly site-inspection reports (see attached).
12. Maintained clean work areas and roads, including fencing and CRZ connections between site units.
13. Training activities include the following:
 - Site Safety Orientations (Clean Zone) were held for:
 - i. One hundred seventy two (172) personnel of various companies
 - ii. One hundred seventeen (117) visitors attending July 4th Airshow and Fireworks events at the Point Ruston ferry
 - HAZWOPER Basic training was verified or completed by personnel of the following companies:
 - i. Four (4) Point Ruston employees
 - HAZWOPER annual retraining was verified or completed by personnel of the following companies:
 - i. Four (4) Point Ruston employees
 - Site Specific Safety Training (Exclusion Zone) was held for personnel of the following companies:
 - i. Eight (8) Point Ruston employees
 - Other relevant monitoring or training was verified or completed by personnel of the following companies:
 - i. Twenty (20) Point Ruston employees (CPR/1st Aid/AED)

B. Summary of sampling, tests and all other data received or generated by Point Ruston in the previous month.

1. Outfall activities including the following:

Section 2.3 of the Final Statement of Work (SOW) for Remedial Design and Remedial Action – Exhibit F to the Second Amendment requires Point Ruston to continue outfall monitoring. Outfalls will be monitored to determine if the monthly average surface water outfall concentrations for arsenic, copper, and zinc exceed 0.5 ppm at the North and South site outfalls until they are abandoned.

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Weekly composite samples will be collected at each outfall during the construction season. During the winter season, outfall samples will be collected every other month. Asarco began the following schedule in May of 2003, which Point Ruston will continue to implement: weekly composite samples will be collected from April-October, and in December and February.

In addition to the North and South Outfalls, Point Ruston monitors an existing upland station near the southeastern end of the car tunnel. This monitoring station is designated OSW2. Samples were collected by Point Ruston from the outfall locations on July 9th, 16th, 23rd, and 30th. Results from samples collected are attached. There were no exceedances.

On April 20, 2012 storm water passing through the OSW2 location was diverted into the new City of Tacoma storm water main (Edwards Street Outfall); therefore no storm water is entering the South Outfall, and therefore monitoring has been discontinued. Inspection of the South Outfall indicated that no flow is occurring. Sampling at the South Outfall location was suspended beginning in May 2012 due to lack of sampling media. South Outfall set to be abandoned in near future, pending finalization of ultimate SWP plans.

2. Point Ruston collects OCF leachate in a 5,000-gallon polyethylene tank for offsite shipment and disposal. The OCF OMMP requires inspections to correspond with, monthly, quarterly, or semi-annual reporting intervals as specified by the Response Action Plan. However, Point Ruston inspects LCRS and LDCRS volumes daily. LCRS volumes currently average approximately 100 gallons per day. Point Ruston currently ships 4,900-5,000 gallons approximately every 50 days. Leachate disposal was not required in July.
3. Point Ruston performs perimeter air monitoring at three locations on the site: NW Corner of OCF, OCF Vault #1 (upper vault), and at the South Gate. With EPA approval, Point Ruston does not conduct perimeter air monitoring during wet weather events that cause wet site conditions. Perimeter air monitoring resumes when the weather allows the site to dry out. Results for samples collected June 25th through July 20th are attached. There were no exceedances. Results for the remainder of July are pending laboratory analysis and will be submitted with the August report.

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Note: Beginning in May 2012 Point Ruston began to analyze perimeter air monitoring samples to a detection level of $0.00015 \mu\text{g}/\text{m}^3$ as well as collecting Total Suspended Particulate (TSP) data. Previously, air monitoring samples were analyzed to a detection level of $0.05 \mu\text{g}/\text{m}^3$. The new trigger level is the 'residential' air monitoring standard that EPA has initially determined will apply to the site under the site's SDOP is $0.004 \mu\text{g}/\text{m}^3$; however, certain fundamentals associated with the analysis of this trigger level have been questioned by Point Ruston consulting engineers, and Point Ruston's final responses to the SDOP will discuss this analysis. The accumulated TSP data will result in a statistical correlation between TSP and contaminant sampling data, resulting in the ability for Point Ruston to set real-time trigger level for maximum TSP during residential occupancy.

Point Ruston conducted portable air monitoring between June 12th and July 12th in conjunction with remediation work on the Waterwalk to test the feasibility of using low-volume samplers with matched-weight filter cassettes in lieu of high-volume pre-weighed filters. Between July 13th and July 20th portable air monitoring moved to Building 2A along Main Street to monitor utility trench activity. On July 30th Point Ruston started portable air monitoring along Ruston Way during daily work activities associated with grading for the Temporary Impermeable Cap to ensure that community exposure does not occur. Laboratory results (TSP, As, Pb) for samples collected June 25th through July 20th are attached. Review of the results is ongoing. Results for the remainder of July are pending laboratory analysis and will be submitted with the August report.

4. Point Ruston performs personal air monitoring in accordance with WAC 296-848-20060(1) & WAC 296-155-17609(1)(a) to determine if the airborne concentrations of arsenic and lead exceed the PEL. Personal air monitoring was performed on July 25th during Waterwalk remediation activities. Results for samples collected are attached. There were no exceedances.
5. Point Ruston performs subsurface methane gas monitoring. In 2009 a passive gas extraction system was installed under the western side of the building 2B foundation, as part of the construction associated with the Phase 1 CMP. In 2011, four gas monitoring wells were installed within the boundaries of the eastern half of building 2B. The Gas Monitoring Data Log and field worksheet for the month of July are attached. No methane has been detected to date.

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6. Point Ruston performs miscellaneous on-site soil sampling related to its various ongoing RA work and development.

Sampling was conducted on July 6th from top soil imported for use as final cap material on the Waterwalk phase.

Sampling was conducted on July 17th from haul road locations at transition zones. Haul roads are to be maintained at <100 ppm arsenic.

Sampling was conducted on July 20th during sewer/storm trenching along the SW side of Building 2A following a brief rain event that resulted in some storm water runoff from the building causing minimal erosion of waste soils into the trench. The eroded material was removed and replaced with clean fill materials.

Sampling was conducted on July 24th from a test pit located NE of Bennett Street at the proposed walking path to Metro Parks property

Sampling was conducted on July 30th from a barge importing gravel for use as fill and final cap material on the Waterwalk phase.

Below are the requirements for clean backfill imported to the site:
(Laboratory analysis reports are attached):

- <20 mg/Kg Arsenic (As)
- <250 mg/Kg Lead (Pb)
- <200 mg/Kg Total Petroleum Hydrocarbons (TPH)
- <1 mg/Kg PCBs
- <8% vegetative organic matter

C. *Work Plans and other deliverables completed and submitted during the previous month.*

1. Plans and Documents included the following:

Temporary Cap Plan – The TIC plan was submitted to EPA on June 8th. On June 29th EPA responded in advance of its formal comments that it requested a test to determine a safe rate of application of gravel borrow using a mechanized slinger machine onto the 20 mil. liner. Point Ruston's sample of the 20 mil. liner is pending, as are EPA's final comments. Point Ruston met with EPA representatives on July 30th to review the TIC and other occupancy documents, however the TIC was not reviewed as EPA was unwilling to discuss the TIC without the full EPA design team.

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Site Wide Storm Water Plan -- The Construction Stormwater Management Plan was submitted to EPA on June 8th along with the TIC. Point Ruston is awaiting EPA's final comments. Final SWP submittal is awaiting approval of the TIC.

Construction Health & Safety Plan v.6 (CH&SP) -- Submitted to EPA, and comments have been received. Point Ruston is drafting responses and anticipates finalizing responses soon. This will be finalized after the approval of occupancy documents.

Waterwalk CMP - Submitted to EPA at coordination meeting and approved by EPA. Point Ruston has drafted a response submittal to the City of Tacoma. The response to Tacoma makes no substantive changes to any elements of the RA. However, Point Ruston will furnish EPA with a copy of its submittal to the City.

Phase 1 Construction Management Plan (CMP) -- Submitted to EPA, comments received, and Point Ruston drafting replies, to be submitted by mid-July. The required redesign of the planter boxes is complete and this is ready for resubmittal to EPA, which will be done at Point Ruston's real-time submittal review with EPA.

Master Infrastructure CMP (MICMP) - The MICMP is substantially complete, and Point Ruston is finalizing its punch list items for the municipalities. The final construction report is currently being drafted and will be submitted following final inspection of EPA pursuant to the process for Certification of Completion of this phase of work.

Ruston Way CH&SP Plan -- Completed and submitted to EPA for Ruston Way opening. Approved, and roadway opened in June 29th.

Sequence of Development and Occupancy Plan (SDOP) -- Completed draft air monitoring chapter; completing replies to EPA comments. Point Ruston's reviewed its draft comment responses were reviewed at the meeting on July 30th, and there appears to be no disagreement as to Point Ruston's approach to this submittal. However, we still have major questions as to whether the air quality standards set by EPA can be met at any site, and the SDOP calls into question certain underlying assumptions used to choose a residential trigger level of 0.004µg/m³ arsenic (which appears to be an air monitoring standard that is unheard of at any other site).

Operations Maintenance, and Monitoring Plan (OMMP) -- Point Ruston continuing edits and scheduled for submittal following EPA comments on SDOP; awaiting final comments on TIC (or approval), and final comments on Phase 1 CMP. Discussed at July 30th meeting, awaiting EPA direction on groundwater monitoring.

CC&Rs and HOA OMMP budget -- Point Ruston continuing edits and restructuring. Removing environmental specific conditions and placing into stand-alone Environmental CC&R document - submittal anticipated

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following receipt of EPA's comments to SDOP. Many of the remedial design decisions will alter the outcomes in the CC&Rs that a final submittal cannot be completed until EPA has given final guidance on the occupancy documents.

Biological Assessment South Outfall Construction (Edwards Street)/ BA South Outfall Flow (Edwards Street) – Re-submitted updated BA for new Edwards Street flows. Finalizing comments to City of Tacoma. EPA process finalized.

BA Shoreline Stabilization –Post-inspection completion report drafted and awaiting final internal review before submittal. Potentially to hold on submittal until completed with the armoring on Peninsula Park as part of that CMP.

Sediment Capping RD - Point Ruston is actively finalizing its plans for the remaining sediment capping, and will seek expedited approval of EPA authorizations required to conduct this project during this in-water construction season.

Peninsula Park CMP - Construction is pending CMP design approval from EPA, and Point Ruston will be seeking EPA's real-time review and approval of sampling and analysis plans. Point Ruston reviewed the first draft of the construction plans and documents related to the "Peninsula Park CMP" with EPA, which includes capping of the Metro Parks Slag Peninsula. The SAP could be submitted to EPA immediately; however, some aspects of the TIC will drive the final plans on this CMP.

Shoreline Armoring RA – The post-inspection completion report has been drafted and will be included as part of the construction report for the MICMP, which is the phase of work this construction was performed under.

2. Remedial Action included the following tasks:

➤ **OCF construction activities:**

- Maintained leachate collection system.
- Inspected storm drain system, vaults and cover.

➤ **Stack Hill construction activities:**

- Maintained erosion and surface water controls; Maintained site perimeter fence and signage at the north end of Stack Hill. Stockpiling materials for completed filling of construction storm water trenches
- Planning for the closure of the temporary storm water ditch.

➤ **Phase 1 CMP**

- Began RA construction of utility connections and final roadway subgrade for permanent cap subgrade.

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- Excavation spoils from utilities placed as subgrade fill for Main Street and Copperline Road entrance
- Submitted plans and final designs of 2B-East foundation to Tacoma to move forward with construction of this aspect of the final cap cover on this phase.
- The tower crane was moved to accommodate RA activities along Phase 1 frontage, as well as allow mobilization to the 2B site.

- **Waterwalk CMP**
 - Lateral spreaders being constructed, and liner being installed.
 - Stage 1 area nearly complete.
 - Established stormwater and construction BMPs and CH&SP zones
 - Placing liner, marker layer and cover
 - Topsoil placement and irrigation system installation, and final landscape install.
 - Power conduit installation
 - Final grade for poured concrete entrance area and asphalt surround; establish rock monuments, and install tile mosaic hardscapes

- **Temporary Impervious Cap and Construction Stormwater Management Plan**
 - Initial site prep in building 5, 6, 7, 8, and final cleanup begun in area 3 and 15/16.
 - Final grading for swales and anchor trenches occurring nearest to Waterwalk/nursery area, and in lot 5, 6 & 7.

- **Stack Hill**
 - Final backfill of construction stormwater trenches and dismantling of the old system.
 - Finalize plans for completed fence along Stack Hill steep slopes, per the Stack Hill Institutional Control Plan.

- **Site-wide remediation/redevelopment activities:**
 - Continued surface water controls
 - Maintained onsite haul roads and stockpiles
 - Maintained erosion and surface water controls; Inspected and repaired silt fence and exclusion zone fencing.
 - Continued site-wide dust monitoring and control through site and access road watering, as needed.
 - Maintained air-monitoring program per CH&SP requirements
 - Continued to maintain Ruston Way Construction Health and Safety protocols, including air monitoring, dust suppression, buffer zone maintenance, fencing and signage.

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D. Actions scheduled for the next six weeks.

1. Point Ruston maintain the Ruston Way Health and Safety protocols.
2. Point Ruston to continue construction of Waterwalk CMP improvements and work to open the First Stage to public occupancy as a test of the site wide SDOP and Institutional Controls.
3. Point Ruston to meet with EPA to conduct real-time review of document submittals, including as follows:
 - Peninsula Park CMP
 - Phase 2 Sediment Cap Remedial Design
 - OMMP
 - SDOP
 - SWP
 - Temporary Cap Plan
 - Institutional Controls/CC&Rs
 - Phase 1 CMP (updated)
 - CH&SP v.6
4. Continue mass grading for Temporary Cap and Site Wide Storm System, including construction of swales and anchor trenches, as well as layout of interim stormwater system, temporary liner(s) and gravel cover system.
5. Continue CH&SP air monitoring during RA activities also TSP sampling and analysis and correlating the data for eventual data-ram analysis during occupancy.
6. Meet with EPA management to conduct real-time review of Development and Occupancy submittals, and continue negotiations regarding SOW RA Milestone Schedule extension and other aspects of the Consent Decree.
7. Finalize discussions with Metro Parks Tacoma regarding Slag Peninsula property and likely begin work on Peninsula Park CMP, including initial sampling and analysis, and finalize CMP for phased review and approval by EPA, then Town of Ruston (civil work only). Initiate process for review of SAP to allow initial clearing, grubbing and grading of the borrow source area, as well as contaminant analysis of the source materials to ensure it meets clean back-fill standards for site-import.
8. Finalize discussions with DNR and State of Washington regarding aquatic land RA, and begin to finalize RD and approvals for this capping project.

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The following Remedial Action tasks are planned to continue:

RA Monitoring:

- a. Outfall sampling (weekly composite samples) during scheduled months
- b. Air monitoring during remedial action activities

OCF OMMP activities:

- a. Continue collection of leachate for offsite disposal
- b. Continue monitoring of leachate volumes

Stack Hill construction activities:

- a. Dismantle surface water controls, including swales and interim piping
- a. Erosion controls and site maintenance, and maintain roads and landscaping, including mowing, as well as on site stockpiles from MICMP (to be used as backfill on stormwater swales)
- b. Continue home construction and sales & marketing efforts

Site-wide construction activities:

- b. Maintain roads and stockpiles onsite
- c. Maintain erosion controls
- d. Complete site wide grading and placement of onsite stockpiles and soils in advance of subgrade construction and compaction.
- e. Maintain erosion control BMPs and CH&SP standards

Phase 1 CMP

- a. Continue vertical construction
- b. Continue utility construction
- c. Continue roadway construction
- d. Continue final cap RA construction
- e. Maintain erosion control BMPs and CH&SP standards

Waterwalk CMP

- a. Continue construction of Waterwalk improvements, finalizing First Stage for occupancy
- b. Maintain erosion control BMPs and CH&SP standards

Temporary Impervious Cap and Construction Stormwater Management Plan

- a. Continue final mass grading
- b. Stormwater construction
- c. Installation of temporary cap materials, including liner(s) and gravel

E. Percentage completion, unresolved delays encountered or anticipated that may affect schedule, and efforts to mitigate delays.

- 1. Final approval of TIC/SW plans and completion of approved SDOP and completion of EPA negotiations on RA schedule modifications and associated matters.

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F. Modifications to work plans or schedules proposed to or approved by EPA.

1. The Second Amendment to the Consent Decree was finalized and the sale of the property to Point Ruston LLC completed on October 31, 2006.
2. Point Ruston submitted a Request for Schedule Modification to Attachment 1 of the Final Statement of Work on February 9, 2010. EPA approved a SOW Schedule Modification on March 24, 2011 deleting the 50% cap completion date, in exchange for an agreement by Point Ruston to complete an interim temporary cap on the site.
3. Point Ruston has proposed a plan to EPA related to a schedule modification related to its Consent Decree.

G. Activities undertaken to support Community Relations Plan during the previous month and planned for the next four weeks.

1. Finalized (unanimous) vote for Metro Parks funding of Peninsula Park CMP, which will result in final cap of slag peninsula, and construction of storm water conveyance controls.
2. Point Ruston continues to work in conjunction with staff from the Town of Ruston and City of Tacoma regarding development plans, which incorporate remediation components for the site, including the Peninsula Park CMP.
3. Point Ruston continues negotiations, design and conclusion of the sale of Waterwalk property to the City of Tacoma.
4. Continue to work in coordination with Tacoma Yacht Club and Metro Parks regarding Slag Peninsula cleanup and Yacht Club Rd. construction.
5. Point Ruston continues to meet with the Town of Ruston, City of Tacoma and MetroParks to address operation, maintenance, and monitoring issues at the site.
6. Point Ruston to continue discussions with DNR related to aquatic land cleanup issues.

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WEEKLY

SITE

INSPECTION

REPORTS



Weekly Site Inspection Report No. 2012-0701

Week of: 7/1 - 7, 2012

Inspector: Tim Rusher

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION			NEED REPAIR?		COMMENTS/OBSERVATIONS
Gates:						
49 th & Ruston Wy	G	F	P	Y	(N)	DECOMMISSIONED
Slag Peninsula	(G)	F	P	Y	(N)	
52 nd Street	(G)	F	P	Y	(N)	
54 th Street (electric)	(G)	F	P	Y	(N)	
Yacht Club Rd	(G)	F	P	Y	(N)	
Grand Ave	(G)	F	P	Y	(N)	x2
BNSF/Ruston Way	(G)	F	P	Y	(N)	
Signage:						
Gates	(G)	F	P	Y	(N)	
Perimeter	(G)	F	P	Y	(N)	
Safety	(G)	F	P	Y	(N)	
Public Streets:						
Ruston Way	(G)	F	P	Y	(N)	
51 st	(G)	F	P	Y	(N)	
Baltimore	(G)	F	P	Y	(N)	
54 th	(G)	F	P	Y	(N)	CLOSED BY TOWN OF RUSTON ASPHALT PATCH AT 54 TH + BENNETT
BMPs:						
Berms	(G)	F	P	Y	(N)	
Waddles	(G)	F	P	Y	(N)	
Silt Fence	(G)	F	P	Y	(N)	
Strom drains clean:						
Lower Site	(G)	F	P	Y	(N)	
Stack Hill	(G)	F	P	Y	(N)	
Stockpiles:						
Envirotac II	(G)	F	P	Y	(N)	
Plastic	G	F	P	Y	N	NONE NOTED
Packed	(G)	F	P	Y	(N)	
Grass	(G)	F	P	Y	(N)	
Dust:						
Traffic areas	(G)	F	P	Y	(N)	OFFSITE DUST CREATED BY TOWN OF RUSTON CONTRACTOR DAILY.
Excavation area	(G)	F	P	Y	(N)	
Fencing:						
Site Perimeter	(G)	F	P	Y	(N)	REPAIRED DAMAGE ON TIDELANDS
Zone Separation	(G)	F	P	Y	(N)	MAINTENANCE IS ONGOING
Cameras:						
Lower Site	G	(F)	P	Y	(N)	
(Other)	G	(F)	P	Y	(N)	

G=Good F=Fair P=Poor Y=Yes N=No

Weekly Site Inspection Report No. 2012-0701
Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION			NEED REPAIR?		COMMENTS/OBSERVATIONS
Health & Safety Plans:						
Site Superintendant	G	F	P	Y	N	PENDING FINAL REVIEW
Construction Super.	G	F	P	Y	N	
Subcontractors	G	F	P	Y	N	

G=Good F=Fair P=Poor Y=Yes N=No

Misc. notes: 7/2/12 - PERIMETER FENCE ON TIDELANDS WAS DAMAGED BY LARGE DRIFTWOOD AT HIGH TIDE. DAMAGED FENCE WAS REPAIRED AT LOW TIDE. SIGNS WERE ALSO REPLACED ON TIDELAND FENCING.

Air Monitoring:

Day of Week	Hi-Vol Y/N	Personal Y/N	Air Monitoring Notes	PORTABLE TSP
Sun 1	N	N	NO RA ACTIVITY	N
Mon 2	Y	N	WATERWALK (GRADING, PAVING, TOPSOIL IMPORT)	Y
Tue 3	Y	N	WATERWALK (GRADING, PAVING)	Y
Wed 4	Y	N	FERRY SPECTATOR ACTIVITIES (NO SOIL DISTURBING WORK)	N
Thu 5	Y	N	WATERWALK (GRADING, PAVING)	Y
Fri 6	Y	N	WATERWALK (GRADING, PAVING, ARMORING)	Y
Sat 7	N	N	NO RA ACTIVITY	N


WEATHER:

Day of Week	(LOW/HIGH)	Summary of Weather Conditions
Sun 1	55°/80°:SW	WIND 4MPH/GUST 110MPH, NO PRECIPITATION
Mon 2	52°/64°:WSW	WIND 3MPH/GUST 15MPH, PRECIP. 0.04" (LATE EVE)
Tue 3	55°/72°:SSW	WIND 8MPH/GUST 110MPH, PRECIP. 0.17" (EARLY MORN)
Wed 4	50°/60°:NNE	WIND 3MPH/GUST 9MPH, NO PRECIPITATION
Thu 5	56°/73°:NNW	WIND 1MPH/GUST 4MPH, NO PRECIPITATION
Fri 6	53°/70°:NNW	WIND 2MPH/GUST 10MPH, NO PRECIPITATION
Sat 7	52°/75°:NNE	WIND 2MPH/GUST 10MPH, NO PRECIPITATION

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

DATE: 7/9/2012

SIGNED: 



TITLE: Construction Oversight / Health & Safety Officer



Weekly Site Inspection Report No.

2012-0708

Week of: 7/8 - 14, 2012

Inspector: Tim Rusher

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION			NEED REPAIR?		COMMENTS/OBSERVATIONS
Gates:						
49 th & Ruston Wy	G	F	P	Y	N	- N/A -
Slag Peninsula	G	F	P	Y	N	
52 nd Street	G	F	P	Y	N	
54 th Street (electric)	G	F	P	Y	N	
Yacht Club Rd	G	F	P	Y	N	
Grand Ave	G	F	P	Y	N	
BNSF/Ruston Way	G	F	P	Y	N	
Signage:						
Gates	G	F	P	Y	N	
Perimeter	G	F	P	Y	N	
Safety	G	F	P	Y	N	
Public Streets:						
Ruston Way	G	F	P	Y	N	
51 st	G	F	P	Y	N	
Baltimore	G	F	P	Y	N	CLOSED
54 th	G	F	P	Y	N	
BMPs:						
Berms	G	F	P	Y	N	
Waddles	G	F	P	Y	N	
Silt Fence	G	F	P	Y	N	
Strom drains clean:						
Lower Site	G	F	P	Y	N	
Stack Hill	G	F	P	Y	N	
Stockpiles:						
Envirotac II	G	F	P	Y	N	
Plastic	G	F	P	Y	N	
Packed	G	F	P	Y	N	
Grass	G	F	P	Y	N	
Dust:						
Traffic areas	G	F	P	Y	N	
Excavation area	G	F	P	Y	N	
Fencing:						
Site Perimeter	G	F	P	Y	N	
Zone Separation	G	F	P	Y	N	NEEDS ATTENTION DAILY
Cameras:						
Lower Site	G	F	P	Y	N	
(Other)	G	F	P	Y	N	

G=Good F=Fair P=Poor Y=Yes N=No

Weekly Site Inspection Report No. 2012-0708
Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERALL CONDITION			NEED REPAIR?		COMMENTS/OBSERVATIONS
Health & Safety Plans:						UNDER REVIEW
Site Superintendant	G	(F)	P	Y	N	
Construction Super.	G	(F)	P	Y	N	
Subcontractors	G	(F)	P	Y	N	

G=Good F=Fair P=Poor Y=Yes N=No

Misc. notes:

Air Monitoring:

Day of Week	HI-Vol Y/N	Personal Y/N	Air Monitoring Notes	PORTABLE SAMPLER
Sun 8	N	N	NO RA ACTIVITY	N
Mon 9	Y	N	WATERWALK (MARKER GRADING)	Y
Tue 10	Y	N	WATERWALK (DRAIN GRADING)	N
Wed 11	Y	N	INSTALL HAIL TRUCK RAMPS / WATERWALK (GRADING)	Y
Thu 12	Y	N	WATERWALK (GRADING)	Y
Fri 13	Y	N	WATERWALK (GRADING) / BLDG. 2A (PREP FOR TRENCH GRADING)	Y
Sat 14	N	N	NO RA ACTIVITY	N

WEATHER:

Day of Week	(LOW/HIGH)	Summary of Weather Conditions
Sun 8	55/79	NNE WIND 2MPH/GUST 7MPH, NO PRECIPITATION
Mon 9	53/76	WSW WIND 4MPH/GUST 9MPH, NO PRECIPITATION
Tue 10	53/70	WNW WIND 2MPH/GUST 8MPH, NO PRECIPITATION
Wed 11	56/83	NORTH WIND 3MPH/GUST 8MPH, NO PRECIPITATION
Thu 12	57/82	SW WIND 4MPH/GUST 11MPH, NO PRECIPITATION
Fri 13	58/80	WSW WIND 3MPH/GUST 13MPH, NO PRECIPITATION
Sat 14	59/85	SW WIND 3MPH/GUST 10MPH, NO PRECIPITATION

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

DATE: 7/16/2012 SIGNED:  TITLE: Construction Oversight / Health & Safety Officer



Weekly Site Inspection Report No. 2012-0715

Week of: 7/15 - 21, 2012 **Inspector: Tim Rusher**

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION			NEED REPAIR?		COMMENTS/OBSERVATIONS
Gates:						
49 th & Ruston Wy	G	F	P	Y	(N)	N/A
Slag Peninsula	(G)	F	P	Y	(N)	
52 nd Street	(G)	F	P	Y	(N)	
54 th Street (electric)	(G)	F	P	Y	(N)	
Yacht Club Rd	(G)	F	P	Y	(N)	
Grand Ave	(G)	F	P	Y	(N)	
BNSF/Ruston Way	(G)	F	P	Y	(N)	
Signage:						
Gates	(G)	F	P	Y	(N)	
Perimeter	(G)	F	P	Y	(N)	
Safety	(G)	F	P	(Y)	(N)	NEED EZ SIGNS ON GRAND AVE.
Public Streets:						
Ruston Way	(G)	F	P	Y	(N)	
51 st	(G)	(F)	P	Y	(N)	SOME TRACK OUT NOTICED AT CREDIT UNION
Baltimore	(G)	F	P	Y	(N)	↑ (NOT SITE RELATED)
54 th	(G)	F	P	Y	(N)	
BMPs:						
Berms	(G)	F	P	Y	(N)	
Waddles	(G)	F	P	Y	(N)	
Silt Fence	(G)	F	P	Y	(N)	
Strom drains clean:						
Lower Site	(G)	F	P	Y	(N)	
Stack Hill	(G)	F	P	Y	(N)	
Stockpiles:						
Envirotac II	(G)	F	P	(Y)	(N)	50' BUFFER NEAR 2A DRIVE NEEDS
Plastic	(G)	F	P	Y	(N)	RE APPLICATION.
Packed	(G)	F	P	Y	(N)	
Grass	(G)	F	P	Y	(N)	
Dust:						
Traffic areas	(G)	F	P	Y	(N)	
Excavation area	(G)	F	P	Y	(N)	
Fencing:						
Site Perimeter	(G)	F	P	Y	(N)	
Zone Separation	G	(F)	P	(Y)	(N)	NEED TO REMOVE SOME @ RUSTON WAY + REPAIR OTHERS
Cameras:						
Lower Site	G	(F)	P	Y	(N)	
(Other)	G	(F)	P	Y	(N)	

G=Good F=Fair P=Poor Y=Yes N=No

Weekly Site Inspection Report No. 2012-0715
Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION			NEED REPAIR?		COMMENTS/OBSERVATIONS
Health & Safety Plans:						UNDER REVIEW
Site Superintendant	G	F	P	Y	N	
Construction Super.	G	F	P	Y	N	
Subcontractors	G	F	P	Y	N	

G=Good F=Fair P=Poor Y=Yes N=No

Misc. notes:

Air Monitoring:

Day of Week	Hi-Vol Y/N	Personal Y/N	Air Monitoring Notes
Sun 15	N	N	NO RA ACTIVITY
Mon 16	Y	N	BLDG 2A TRENCH / WATER WALK (GRADING)
Tue 17	Y	N	BLDG 2A TRENCH / WATER WALK (GRADING)
Wed 18	Y	N	BLDG 2A TRENCH / WATER WALK (GRADING) / LOT 4 LINER TEST
Thu 19	Y	N	BLDG 2A TRENCH / BACKFILL STORAGE FOUNDN / WATER WALK / MOWING / TUNNEL SLOPE
Fri 20	Y	N	BLDG 2A TRENCH (BACKFILL STORAGE FOUNDN) / GRADING / WATER WALK / MOWING LOT 9+11
Sat 21	N	N	NO RA ACTIVITY

WEATHER:

Day of Week	(LOW/HIGH)	Summary of Weather Conditions
Sun 15	59/65	WEST WIND 3MPH / GUST 6MPH, NO PRECIPITATION
Mon 16	50/73	NNE WIND 2MPH / GUST 9MPH, PRECIP. 0.11" (EARLY MORN.)
Tue 17	60/67	SW WIND 3MPH / GUST 11MPH, NO PRECIPITATION
Wed 18	59/78	SW WIND 3MPH / GUST 10MPH, NO PRECIPITATION
Thu 19	59/61	NNW WIND 3MPH / GUST 8MPH, NO PRECIPITATION
Fri 20	59/71	SOUTH WIND 5MPH / GUST 11MPH, PRECIP. 0.45" (MORNIN - NOON)
Sat 21	60/81	WEST WIND 3MPH / GUST 8MPH, NO PRECIPITATION

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

DATE: 7/23/2012

SIGNED: 

Tim R.

TITLE:

Construction Oversight / Health & Safety Officer



GENERAL SITE

Weekly Site Inspection Report No. 2012-0722
 Week of: 7/22 - 28, 2012 Inspector: Tim Rusher
 Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION			NEED REPAIR?		COMMENTS/OBSERVATIONS
Gates:						
49 th & Ruston Wy	G	F	P	Y	N	N/A
Slag Peninsula	(G)	F	P	Y	(N)	
52 nd Street	(G)	F	P	Y	(N)	
54 th Street (electric)	(G)	F	P	Y	(N)	
Yacht Club Rd	(G)	F	P	Y	(N)	
Grand Ave	(G)	F	P	Y	(N)	
BNSF/Ruston Way	(G)	F	P	Y	(N)	PREP APPROACH FOR BRICK PAVERS
Signage:						
Gates	(G)	F	P	Y	(N)	
Perimeter	(G)	F	P	Y	(N)	
Safety	(G)	F	P	Y	(N)	
Public Streets:						
Ruston Way	(G)	F	P	Y	N	
51 st	(G)	F	P	Y	(N)	TRACK OUT FROM ROADSIDE AT CREDIT UNO
Baltimore	(G)	F	P	Y	N	
54 th	(G)	F	P	Y	(N)	
BMPs:						
Berms	(G)	F	P	Y	(N)	
Waddles	(G)	F	P	Y	(N)	
Silt Fence	(G)	F	P	Y	(N)	
Strom drains clean:						
Lower Site	(G)	F	P	Y	(N)	
Stack Hill	(G)	F	P	Y	(N)	
Stockpiles:						
Envirotac II	(G)	F	P	Y	(N)	
Plastic	(G)	F	P	Y	(N)	
Packed	(G)	F	P	Y	(N)	
Grass	(G)	F	P	Y	(N)	
Dust:						
Traffic areas	(G)	F	P	Y	(N)	
Excavation area	(G)	F	P	Y	(N)	
Fencing:						
Site Perimeter	(G)	F	P	Y	(N)	ROADSIDE DAMAGED SEVERAL PANELS AT C.U.
Zone Separation	G	(F)	P	(Y)	N	SOME AREAS NEED REPAIR
Cameras:						
Lower Site	G	(F)	P	Y	(N)	
(Other)	G	(F)	P	Y	(N)	

G=Good F=Fair P=Poor Y=Yes N=No

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERALL CONDITION			NEED REPAIR?		COMMENTS/OBSERVATIONS
Health & Safety Plans:						
Site Superintendant	G	F	P	Y	N	UNDER REVIEW
Construction Super.	G	F	P	Y	N	
Subcontractors	G	F	P	Y	N	

G=Good F=Fair P=Poor Y=Yes N=No

Misc. notes: INCREASED EMPHASIS ON EXCLUSION ZONE FENCE PROCEDURES
OPENINGS NEED TO BE CLOSED UNLESS STAFFED TO PREVENT ENTRY
ESPECIALLY AT LUNCH AND END OF DAY.

Air Monitoring:

Day of Week	Hi-Vol Y/N	Personal Y/N	Air Monitoring Notes	PORTABLE AIR MON.
Sun 22	N	N	NO RA ACTIVITY	N
Mon 23	Y	N	WATERWALK (LINER) / BLDG 2A (CONNECTOR TRENCH)	N
Tue 24	Y	N	WATERWALK (LINER) / BLDG 2A (CONNECTOR TRENCH) / GRADE LOT 1C / METRO PADS	N
Wed 25	Y	Y	→ LOT 1C GRADING / WATERWALK (LINER) / BLDG 2A (CONNECTOR TRENCH)	N
Thu 26	Y	N	BLDG 2A (CONNECTOR TRENCH) / WATERWALK (LINER)	N
Fri 27	Y	N	DECON SUB FOR CLEAN STOCKPILE / BLDG 2A (CONNECTOR TRENCH)	N
Sat 28	Y	N	DECON SUB FOR CLEAN STOCKPILE	N

WEATHER:

Day of Week	(LOW/HIGH)	Summary of Weather Conditions
Sun 22	51/71:SSW	WIND 5MPH/GUST 11MPH, NO PRECIPITATION
Mon 23	52/71:SOUTH	WIND 5MPH/GUST 11MPH, NO PRECIPITATION
Tue 24	53/77:NNW	WIND 4MPH/GUST 8MPH, NO PRECIPITATION
Wed 25	53/83:NNW	WIND 2MPH/GUST 6MPH, NO PRECIPITATION
Thu 26	57/85:SW	WIND 3MPH/GUST 7MPH, NO PRECIPITATION
Fri 27	58/74:SSW	WIND 3MPH/GUST 11MPH, NO PRECIPITATION
Sat 28	59/75:SSW	WIND 3MPH/GUST 8MPH, NO PRECIPITATION

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

INSPECTOR: DATE: 7/30/2012

SIGNED: 

T.M.R.

H&S OFFICER: DATE: 7/30/2012

SIGNED: 

T.M.R.



GENERAL SITE

Weekly Site Inspection Report No.

2012-0729

Week of: 7/29 – 8/4, 2012

Inspector: Tim Rusher

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION			NEED REPAIR?		COMMENTS/OBSERVATIONS
Gates:						
49 th & Ruston Wy	G	F	P	Y	N	N/A
Slag Peninsula	(G)	F	P	Y	(N)	
52 nd Street	(G)	F	P	Y	(N)	
54 th Street (electric)	(G)	F	P	Y	(N)	
Yacht Club Rd	(G)	F	P	Y	(N)	
Grand Ave	(G)	F	P	Y	(N)	
BNSF/Ruston Way	(G)	F	P	Y	(N)	
Signage:						
Gates	(G)	F	P	Y	(N)	
Perimeter	(G)	F	P	Y	(N)	
Safety	(G)	F	P	Y	(N)	
Public Streets:						
Ruston Way	(G)	F	P	Y	(N)	
51 st	(G)	F	P	Y	(N)	
Baltimore	(G)	F	P	Y	(N)	Closed By Town
54 th	(G)	F	P	Y	(N)	
BMPs:						
Berms	(G)	F	P	Y	(N)	
Waddles	(G)	F	P	Y	(N)	
Silt Fence	(G)	F	P	Y	(N)	
Strom drains clean:						
Lower Site	(G)	F	P	Y	(N)	
Stack Hill	(G)	F	P	Y	(N)	
Stockpiles:						
Envirotac II	(G)	F	P	Y	(N)	
Plastic	(G)	F	P	Y	(N)	
Packed	(G)	F	P	Y	(N)	
Grass	(G)	F	P	Y	(N)	
Dust:						
Traffic areas	(G)	F	P	Y	(N)	
Excavation area	(G)	F	P	Y	(N)	
Fencing:						
Site Perimeter	(G)	F	P	Y	(N)	
Zone Separation	G	(F)	P	(Y)	N	NEEDS DAILY ATTENTION
Cameras:						
Lower Site	G	(F)	P	Y	(N)	
(Other)	G	(F)	P	Y	(N)	

G=Good F=Fair P=Poor Y=Yes N=No

Operable Unit 02 - Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERALL CONDITION			NEED REPAIR?		COMMENTS/OBSERVATIONS
Health & Safety Plans:						
Site Superintendant	G	F	P	Y	N	UNDER REVIEW
Construction Super.	G	F	P	Y	N	
Subcontractors	G	F	P	Y	N	

G=Good F=Fair P=Poor Y=Yes N=No

Misc. notes: REVIEWED EXCLUSION ZONE FENCE PROTOCOL WITH SUBCONTRACTORS. EMPHASIS ON CLOSING FENCE WHEN LEAVING AREA.

OFF SITE CONSTRUCTION IN RUSTON HAS BEEN PRODUCING SIGNIFICANT AMOUNTS OF DUST, AT TIMES BLOWING TOWARDS THE SITE MONITORS

Air Monitoring:

Day of Week	Hi-Vol Y/N	Personal Y/N	Air Monitoring Notes			PORTABLE AIR MON.
Sun 29	N	N	NO RA ACTIVITY			N
Mon 30	Y	N	BARGE OFFLOADING / T.I.C. #6 (GRADING WASTE SOILS)			Y
Tue 31	Y	N	T.I.C. #6 (GRADING WASTE SOILS) / BNSF (BRICK PAVERS) / CALPORT (TRUCK IMPORTS)			Y
Wed 8/1	Y	N	" " / STACK HILL FENCE			Y
Thu 2	Y	N	" " / OFF SITE DUST			Y
Fri 3	Y	N	" " / OFF SITE DUST			Y
Sat 4	N	N	WATERWALK (GRADING CLEAN/FINAL CAP MATERIAL) GRAVEL TOP SOIL			N

WEATHER:

Day of Week	(LOW/HIGH)	Summary of Weather Conditions
Sun 29	59°/80°	NW WIND 4MPH / GUST 10MPH, NO PRECIPITATION
Mon 30	57°/71°	SSW WIND 4MPH / GUST 11MPH, NO PRECIPITATION
Tue 31	57°/70°	NORTH WIND 3MPH / GUST 10MPH, NO PRECIPITATION
Wed 8/1	54°/80°	WEST WIND 4MPH / GUST 8MPH, NO PRECIPITATION
Thu 2	54°/80°	WEST WIND 2MPH / GUST 10MPH, NO PRECIPITATION
Fri 3	56°/81°	NW WIND 4MPH / GUST 8MPH, NO PRECIPITATION
Sat 4	68°/91°	NE WIND 3MPH / GUST 10MPH, NO PRECIPITATION

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

INSPECTOR: DATE: 8/6/2012

SIGNED: 

TIM R.

H&S OFFICER: DATE: 8/6/2012

SIGNED: 

TIM R.

Monthly Report 194, July 2012
Operable Unit 02
Asarco Tacoma Smelter Site

OUTFALL
MONITORING
DATA

Table 1. Summary of **July 2012** Outfall Data for As, Cu, and Zn Compared to SOW Limit

Location	As Conc. ppm	% of SOW Limit*	Cu Conc. ppm	% of SOW Limit*	Zn Conc. ppm	% of SOW Limit*
South Outfall	0.000	0.00%	0.000	0.00%	0.000	0.00%
OSW2	0.039	7.75%	0.006	1.26%	0.000	0.00%
North Outfall	0.022	4.35%	0.013	2.63%	0.008	1.56%

* 0.5 ppm is the limit of As, Cu, and Zn allowed as documented in the SOW.

** **NOTE:** Sampling has been suspended at the South Outfall due to lack of sample media.
Sampling will resume when media is available.



SPECTRA Laboratories

2221 Ross Way • Tacoma, WA 98421 • (253) 272-4850 • Fax (253) 572-9838 • www.spectra-lab.com

AUG 06 2012


08/01/2012

Point Ruston
5219 N. Shirley St.,
Suite 100
Tacoma, WA 98407

Project: July Outfalls
Date Received: 07/30/2012
Spectra Project: 2012070616

<u>Client ID</u>	<u>Spectra #</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Matrix</u>	<u>Date Sampled</u>
TSM 0712409	1	Arsenic	0.022	mg/L	EPA 200.8	Water	07/09/2012
TSM 0712409	1	Copper	0.013	mg/L	EPA 200.8	Water	07/09/2012
TSM 0712409	1	Zinc	0.013	mg/L	EPA 200.8	Water	07/09/2012
TSM 0712209	2	Arsenic	0.032	mg/L	EPA 200.8	Water	07/09/2012
TSM 0712209	2	Copper	0.0045	mg/L	EPA 200.8	Water	07/09/2012
TSM 0712209	2	Zinc	< 0.0005	mg/L	EPA 200.8	Water	07/09/2012
TSM 0712416	3	Arsenic	0.019	mg/L	EPA 200.8	Water	07/16/2012
TSM 0712416	3	Copper	0.0075	mg/L	EPA 200.8	Water	07/16/2012
TSM 0712416	3	Zinc	0.0021	mg/L	EPA 200.8	Water	07/16/2012
TSM 0712216	4	Arsenic	0.043	mg/L	EPA 200.8	Water	07/16/2012
TSM 0712216	4	Copper	0.0072	mg/L	EPA 200.8	Water	07/16/2012
TSM 0712216	4	Zinc	< 0.0005	mg/L	EPA 200.8	Water	07/16/2012
TSM 0712423	5	Arsenic	0.025	mg/L	EPA 200.8	Water	07/23/2012
TSM 0712423	5	Copper	0.022	mg/L	EPA 200.8	Water	07/23/2012
TSM 0712423	5	Zinc	0.016	mg/L	EPA 200.8	Water	07/23/2012
TSM 0712223	6	Arsenic	0.045	mg/L	EPA 200.8	Water	07/23/2012
TSM 0712223	6	Copper	0.0095	mg/L	EPA 200.8	Water	07/23/2012
TSM 0712223	6	Zinc	< 0.0005	mg/L	EPA 200.8	Water	07/23/2012

SPECTRA LABORATORIES



Steve Hibbs, Laboratory Manager
a8/sgh



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08/01/2012

Point Ruston
5219 N. Shirley St.,
Suite 100
Tacoma, WA 98407

Project: July Outfalls
Date Received: 07/30/2012
Spectra Project: 2012070616

<u>Client ID</u>	<u>Spectra #</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Matrix</u>	<u>Date Sampled</u>
TSM 0712430	7	Arsenic	0.021	mg/L	EPA 200.8	Water	07/30/2012
TSM 0712430	7	Copper	0.010	mg/L	EPA 200.8	Water	07/30/2012
TSM 0712430	7	Zinc	< 0.0005	mg/L	EPA 200.8	Water	07/30/2012
TSM 0712230	8	Arsenic	0.035	mg/L	EPA 200.8	Water	07/30/2012
TSM 0712230	8	Copper	0.004	mg/L	EPA 200.8	Water	07/30/2012
TSM 0712230	8	Zinc	< 0.0005	mg/L	EPA 200.8	Water	07/30/2012

SPECTRA LABORATORIES



Steve Hibbs, Laboratory Manager

a8/sgh

SPECTRA Laboratories

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August 1, 2012

Point Ruston
5219 N. Shirley St.
Suite 100
Tacoma, WA 98407

Units: ug/L
Spectra Project: 2012070616
Applies to Spectra #'s 1 thru 8

QUALITY CONTROL RESULTS

ICP-MS Metals - EPA Method 200.8 - Water

Method Blank

Date Digested: 8/1/2012 Date Analyzed: 8/1/2012

Element	CAS #	Blank Result
Arsenic	7440-38-2	< 0.5
Copper	7440-50-8	< 0.5
Zinc	7440-66-6	< 0.5

Blank Spike (LCS)

Date Digested: 8/1/2012 Date Analyzed: 8/1/2012

Element	Spike Added	LCS Conc.	LCS %Rec
Arsenic	50.0	46.96	93.9
Copper	50.0	50.37	100.7
Zinc	50.0	43.37	86.7

LCS Recovery limits 85-115%

Matrix Spike/Matrix Spike Duplicate (MS/MSD)

Date Digested: 8/1/2012 Date Analyzed: 8/1/2012
Sample Spiked: 2012070616-1

Element	Sample Conc.	Spike Conc.	MS Conc.	MS %Rec	MSD Conc.	MSD %Rec	RPD
Arsenic	21.74	50.0	73.98	104.5	76.39	109.3	4.5
Copper	12.88	50.0	60.17	94.6	62.00	98.2	3.8
Zinc	13.33	50.0	68.54	110.4	70.21	113.8	3.0

Recovery Limits 70-130%

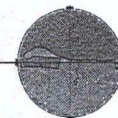
RPD Limit 20

SPECTRA LABORATORIES

Steven G. Hibbs
Laboratory Manager

POINT RUSTON

5219 N. Shirley St., Suite 100 Tacoma, WA 98407
Phone: 253-752-2185 Fax: 253-752-7083



2012070616

[illegible]

PERIMETER
AIR
MONITORING
DATA
(HIGH VOLUME)

Point Ruston
Particulate Network Summary - TSP
June, 2012

Filter ID	Sampler ID	Runday	Tare Mass	Exposed Mass	Net Mass	Run Time	Std. Volume	Act. Volume	Std. Conc.	Act. Conc.	Comments
			grams	grams	grams	minutes	m ³	m ³	µg/m ³	µg/m ³	
512784	OCF NW Corner	06/25/12	4.6818	4.7126	0.0308	1439	1894	1838	16	17	
512787	OCF NW Corner	06/26/12	4.6951	4.7486	0.0535	1430	1913	1858	28	29	
512790	OCF NW Corner	06/27/12	4.6782	4.7237	0.0455	1430	1923	1872	24	24	
512793	OCF NW Corner	06/28/12	4.7116	4.7787	0.0671	1425	1845	1807	36	37	
512796	OCF NW Corner	06/29/12	4.7364	4.7636	0.0272	1430	1912	1868	14	15	
512783	OCF Vault#1	06/25/12	4.6627	4.7041	0.0414	1440	2221	2156	19	19	
512786	OCF Vault#1	06/26/12	4.6007	4.6852	0.0845	1432	2249	2185	38	39	
512789	OCF Vault#1	06/27/12	4.7077	4.7594	0.0517	1434	2181	2124	24	24	
512792	OCF Vault#1	06/28/12	4.6209	4.7077	0.0868	1425	2158	2113	40	41	
512795	OCF Vault#1	06/29/12	4.7851	4.8397	0.0546	1430	2166	2116	25	26	
512782	South Gate	06/25/12	4.6443	4.6702	0.0259	1439	1944	1887	13	14	
512785	South Gate	06/26/12	4.6430	4.6698	0.0268	1435	1939	1884	14	14	
512788	South Gate	06/27/12	4.6291	4.6355	0.0064	190	237	230	27	28	
512791	South Gate	06/28/12	4.6469	4.6880	0.0411	1265	1638	1604	25	26	
512794	South Gate	06/29/12	4.6889	4.7164	0.0275	1430	1882	1838	15	15	
512797	Control	07/02/12	4.6664	4.6674	0.0010						

Point Ruston
Particulate Network Summary - As and Pb
June, 2012

Filter ID	Sampler ID	Runday	Act. Volume m ³	Arsenic µg/Filter	Act. Conc. µg/m ³ As	Lead µg/Filter	Act. Conc. µg/m ³ Pb	Comments
512784	OCF NW Corner	06/25/12	1838	<2.00	<0.001	3.99	0.002	
512787	OCF NW Corner	06/26/12	1858	6.37	0.003	6.43	0.003	
512790	OCF NW Corner	06/27/12	1872	5.16	0.002	6.23	0.003	
512793	OCF NW Corner	06/28/12	1807	7.74	0.004	7.81	0.004	
512796	OCF NW Corner	06/29/12	1868	<2.00	<0.001	4.68	0.002	
512783	OCF Vault#1	06/25/12	2156	<2.00	<0.001	5.76	0.002	
512786	OCF Vault#1	06/26/12	2185	4.42	0.002	5.69	0.002	
512789	OCF Vault#1	06/27/12	2124	12.7	0.005	10.4	0.004	
512792	OCF Vault#1	06/28/12	2113	8.31	0.003	11.2	0.005	
512795	OCF Vault#1	06/29/12	2116	<2.00	<0.001	6.65	0.003	
512782	South Gate	06/25/12	1887	<2.00	<0.001	3.73	0.001	
512785	South Gate	06/26/12	1884	<2.00	<0.001	3.70	0.001	
512788	South Gate	06/27/12	230	<2.00	<0.001	<2.00	<0.001	
512791	South Gate	06/28/12	1604	<2.00	<0.001	3.60	0.002	
512794	South Gate	06/29/12	1838	<2.00	<0.001	3.83	0.002	
512797	Control	07/02/12		<2.00	N/A	<2.00	N/A	



SPECTRA Laboratories

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JUL 27 2012


07/24/2012

Point Ruston
5219 N. Shirley St.,
Suite 100
Tacoma, WA 98407

Project: Point Ruston LLC Hi-Vol.
Date Received: 07/09/2012
Spectra Project: 2012070148

<u>Client ID</u>	<u>Spectra #</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Matrix</u>	<u>Date Sampled</u>
8599967	1	Arsenic	0.0015	µg/m3	SW846 6020A	Filter	07/02/2012
8599967	1	Lead	0.0040	µg/m3	SW846 6020A	Filter	07/02/2012
8599966	2	Arsenic	0.0044	µg/m3	SW846 6020A	Filter	07/02/2012
8599966	2	Lead	0.010	µg/m3	SW846 6020A	Filter	07/02/2012
8599965	3	Arsenic	0.0023	µg/m3	SW846 6020A	Filter	07/02/2012
8599965	3	Lead	0.0046	µg/m3	SW846 6020A	Filter	07/02/2012
8599964	4	Arsenic	0.0021	µg/m3	SW846 6020A	Filter	07/03/2012
8599964	4	Lead	0.0060	µg/m3	SW846 6020A	Filter	07/03/2012
8599963	5	Arsenic	0.0049	µg/m3	SW846 6020A	Filter	07/03/2012
8599963	5	Lead	0.015	µg/m3	SW846 6020A	Filter	07/03/2012
8599962	6	Arsenic	0.0020	µg/m3	SW846 6020A	Filter	07/03/2012
8599962	6	Lead	0.0051	µg/m3	SW846 6020A	Filter	07/03/2012
8599961	7	Arsenic	0.0045	µg/m3	SW846 6020A	Filter	07/04/2012
8599961	7	Lead	0.030	µg/m3	SW846 6020A	Filter	07/04/2012
8599960	8	Arsenic	0.0038	µg/m3	SW846 6020A	Filter	07/04/2012
8599960	8	Lead	0.024	µg/m3	SW846 6020A	Filter	07/04/2012

SPECTRA LABORATORIES



Steve Hibbs, Laboratory Manager

a8/sgh



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07/24/2012

Point Ruston
5219 N. Shirley St.,
Suite 100
Tacoma, WA 98407

Project: Point Ruston LLC Hi-Vol.
Date Received: 07/09/2012
Spectra Project: 2012070148

<u>Client ID</u>	<u>Spectra #</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Matrix</u>	<u>Date Sampled</u>
8599959	9	Arsenic	0.0041	µg/m3	SW846 6020A	Filter	07/04/2012
8599959	9	Lead	0.025	µg/m3	SW846 6020A	Filter	07/04/2012
8599958	10	Arsenic	0.0026	µg/m3	SW846 6020A	Filter	07/05/2012
8599958	10	Lead	0.017	µg/m3	SW846 6020A	Filter	07/05/2012
8599957	11	Arsenic	0.0025	µg/m3	SW846 6020A	Filter	07/05/2012
8599957	11	Lead	0.014	µg/m3	SW846 6020A	Filter	07/05/2012
8599956	12	Arsenic	0.0023	µg/m3	SW846 6020A	Filter	07/05/2012
8599956	12	Lead	0.013	µg/m3	SW846 6020A	Filter	07/05/2012
8599955	13	Arsenic	0.0024	µg/m3	SW846 6020A	Filter	07/06/2012
8599955	13	Lead	0.0078	µg/m3	SW846 6020A	Filter	07/06/2012
8599954	14	Arsenic	0.0017	µg/m3	SW846 6020A	Filter	07/06/2012
8599954	14	Lead	0.0084	µg/m3	SW846 6020A	Filter	07/06/2012
8599953	15	Arsenic	0.0034	µg/m3	SW846 6020A	Filter	07/06/2012
8599953	15	Lead	0.0083	µg/m3	SW846 6020A	Filter	07/06/2012
8599946	16	Arsenic	< 0.00015	µg/m3	SW846 6020A	Filter	07/09/2012
8599946	16	Lead	< 0.00015	µg/m3	SW846 6020A	Filter	07/09/2012

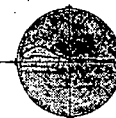
SPECTRA LABORATORIES



Steve Hibbs, Laboratory Manager

a8/sgb

CHAIN OF CUSTODY RECORD

POINT
RUSTON5219 N. Shirley St., Suite 100 Tacoma, WA 98407
Phone: 253-752-2185 Fax: 253-752-7083

1012070149

PROJ. NO		PROJECT NAME		NO. OF CONTAINERS		REMARKS																													
AIR MONITORING		Pt Ruston LLC																																	
SAMPLERS: (Signature)																																			
DATE						STA #						TIME						COMP						GRAB						SAMPLE NUMBER					
7/2/12						S.G.												X						8599967											
7/2/12						OCF-VI						X												8599966											
7/2/12						OCF-NW						X												8599965											
7/3/12						S.G.						X												8599964											
7/3/12						OCF-VI						X												8599963											
7/3/12						OCF-NW						X												8599962											
7/4/12						S.G.						X												8599961											
7/4/12						OCF-VI						X												8599960											
7/4/12						OCF-NW						X												8599959											
7/5/12						S.G.						X												8599958											
7/5/12						OCF-VI						X												8599957											
7/5/12						OCF-NW						X												8599956											
7/6/12						S.G.						X												8599955											
7/6/12						OCF-VI						X												8599954											
7/6/12						OCF-NW						X												8599953											
Relinquished (Signature)						Date/Time						Received by: (Signature)						Lab						Shipped via: FedEx, UPS or Other											
7/9/12						15:28						Mario Kelt						Spectra						Drop											
Relinquished (Signature)						Date/Time						Received by: (Signature)						Remarks																	
Relinquished (Signature)						Date/Time						Received for Laboratory by: (Signature)						Date/Time						Enclosed:											
																								<input type="checkbox"/> Parameter List with DTLs <input type="checkbox"/> Cover Letter											
																		Split Samples:																	
																		[] Accepted [] Declined						Signature											

POINT RUSTON

PROJ. NO		PROJECT NAME		NO. OF CONTAINERS		REMARKS	
AIR MONITORING		Pt Ruston LLC		1		As Pb	
SAMPLERS: (Signature)							
DATE	STA #	TIME	COMP	GRAB	SAMPLE NUMBER		
7/9/12	Control				8599946		
7/9/12	H1 VOLUME SAMPLER LOG						
Relinquished (Signature)		Date/Time		Received by: (Signature)		Lab	
[Signature]		7/9/12 15.20		[Signature]		Spectra	
Relinquished (Signature)		Date/Time		Received by: (Signature)		Shipped via: FedEx, UPS or Other	
[Signature]				[Signature]		Air Bill # [Signature]	
Relinquished (Signature)		Date/Time		Received for Laboratory by: (Signature)		Remarks	
[Signature]				[Signature]			
Relinquished (Signature)		Date/Time		Received for Laboratory by: (Signature)		Enclosed:	
[Signature]				[Signature]		<input type="checkbox"/> Parameter List with DTLs	
						<input type="checkbox"/> Cover Letter	
						Split Samples:	
						[] Accepted [] Declined	
						Signature	



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AUG 08 2012

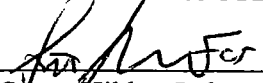
08/03/2012

Point Ruston
5219 N. Shirley St.,
Suite 100
Tacoma, WA 98407

Date Received: 07/16/2012
Spectra Project: 2012070303

<u>Client ID</u>	<u>Spectra #</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Matrix</u>	<u>Date Sampled</u>
8599952	1	Arsenic	0.00096	µg/m3	SW846 6020A	Filter	07/09/2012
8599952	1	Lead	0.0063	µg/m3	SW846 6020A	Filter	07/09/2012
8599951	2	Arsenic	0.0013	µg/m3	SW846 6020A	Filter	07/09/2012
8599951	2	Lead	0.0072	µg/m3	SW846 6020A	Filter	07/09/2012
8599950	3	Arsenic	0.0025	µg/m3	SW846 6020A	Filter	07/09/2012
8599950	3	Lead	0.0063	µg/m3	SW846 6020A	Filter	07/09/2012
8599949	4	Arsenic	0.0017	µg/m3	SW846 6020A	Filter	07/10/2012
8599949	4	Lead	0.0057	µg/m3	SW846 6020A	Filter	07/10/2012
8599948	5	Arsenic	0.0013	µg/m3	SW846 6020A	Filter	07/10/2012
8599948	5	Lead	0.0052	µg/m3	SW846 6020A	Filter	07/10/2012
8599947	6	Arsenic	0.0020	µg/m3	SW846 6020A	Filter	07/10/2012
8599947	6	Lead	0.0059	µg/m3	SW846 6020A	Filter	07/10/2012
8599945	7	Arsenic	0.0017	µg/m3	SW846 6020A	Filter	07/11/2012
8599945	7	Lead	0.0069	µg/m3	SW846 6020A	Filter	07/11/2012
8599944	8	Arsenic	0.0030	µg/m3	SW846 6020A	Filter	07/11/2012
8599944	8	Lead	0.0081	µg/m3	SW846 6020A	Filter	07/11/2012

SPECTRA LABORATORIES


Steve Hibbs, Laboratory Manager
a8/scj



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08/03/2012

Point Ruston
5219 N. Shirley St.,
Suite 100
Tacoma, WA 98407

Date Received: 07/16/2012
Spectra Project: 2012070303

<u>Client ID</u>	<u>Spectra #</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Matrix</u>	<u>Date Sampled</u>
8599943	9	Arsenic	0.0021	µg/m3	SW846 6020A	Filter	07/11/2012
8599943	9	Lead	0.0071	µg/m3	SW846 6020A	Filter	07/11/2012
8599942	10	Arsenic	0.0022	µg/m3	SW846 6020A	Filter	07/12/2012
8599942	10	Lead	0.0072	µg/m3	SW846 6020A	Filter	07/12/2012
8599941	11	Arsenic	0.0024	µg/m3	SW846 6020A	Filter	07/12/2012
8599941	11	Lead	0.0070	µg/m3	SW846 6020A	Filter	07/12/2012
8599940	12	Arsenic	0.0028	µg/m3	SW846 6020A	Filter	07/12/2012
8599940	12	Lead	0.0071	µg/m3	SW846 6020A	Filter	07/12/2012
8599939	13	Arsenic	0.0023	µg/m3	SW846 6020A	Filter	07/13/2012
8599939	13	Lead	0.0055	µg/m3	SW846 6020A	Filter	07/13/2012
8599938	14	Arsenic	0.0030	µg/m3	SW846 6020A	Filter	07/13/2012
8599938	14	Lead	0.0065	µg/m3	SW846 6020A	Filter	07/13/2012
8599937	15	Arsenic	0.0029	µg/m3	SW846 6020A	Filter	07/13/2012
8599937	15	Lead	0.0053	µg/m3	SW846 6020A	Filter	07/13/2012
8599930	16	Arsenic	< 0.00015	µg/m3	SW846 6020A	Filter	07/16/2012
8599930	16	Lead	< 0.00015	µg/m3	SW846 6020A	Filter	07/16/2012

SPECTRA LABORATORIES



Steve Hibbs, Laboratory Manager

a8/scj

2012070303

CHAIN OF CUSTODY RECORD

POINT
RUSTON5219 N. Shirley St., Suite 100 Tacoma, WA 98407
Phone: 253-752-2185 Fax: 253-752-7083

2012070303

PROJ. NO		PROJECT NAME		NO. OF CONTAINERS		REMARKS														
AIR MONITORING		Pt Ruston LLC (H1-VOL)																		
SAMPLERS: (Signature)																				
DATE	STA #	TIME	COMP	GRAB	SAMPLE NUMBER															
7/9/12	S.G		X		8599952	1	X													
7/9/12	OCF-VI		X		8599951	1	X													
7/9/12	OCF-NW		X		8599950	1	X													
7/10/12	S.G		X		8599949	1	X													
7/10/12	OCF-VI		X		8599948	1	X													
7/10/12	OCF-NW		X		8599947	1	X													
7/11/12	S.G		X		8599945	1	X													
7/11/12	OCF-VI		X		8599944	1	X													
7/11/12	OCF-NW		X		8599943	1	X													
7/12/12	S.G		X		8599942	1	X													
7/12/12	OCF-VI		X		8599941	1	X													
7/12/12	OCF-NW		X		8599940	1	X													
7/13/12	S.G		X		8599939	1	X													
7/13/12	OCF-VI		X		8599938	1	X													
7/13/12	OCF-NW		X		8599937	1	X													
Relinquished (Signature)			Date/Time			Received by: (Signature)			Lab			Shipped via: FedEx, UPS or Other: <u>Drop</u>								
<u>[Signature]</u>			7/16/12 15:12			<u>Jessica Holt</u>			Spectra			Air Bill # <u>012</u>								
Relinquished (Signature)			Date/Time			Received by: (Signature)			Remarks											
Relinquished (Signature)			Date/Time			Received for Laboratory by: (Signature)			Date/Time			Enclosed:								
												<input type="checkbox"/> Parameter List with DTLs <input type="checkbox"/> Cover Letter								
Split Samples:																				
[] Accepted [] Declined																				
Signature																				



SPECTRA Laboratories

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AUG 08 2012

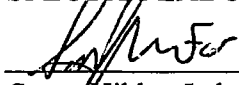
08/03/2012

Point Ruston
5219 N. Shirley St.,
Suite 100
Tacoma, WA 98407

Project: Air Monitoring
Date Received: 07/23/2012
Spectra Project: 2012070489

<u>Client ID</u>	<u>Spectra #</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Matrix</u>	<u>Date Sampled</u>
8599936	1	Arsenic	0.0020	µg/m3	SW846 6020A	Filter	07/16/2012
8599936	1	Lead	0.0073	µg/m3	SW846 6020A	Filter	07/16/2012
8599935	2	Arsenic	0.0018	µg/m3	SW846 6020A	Filter	07/16/2012
8599935	2	Lead	0.0059	µg/m3	SW846 6020A	Filter	07/16/2012
8599934	3	Arsenic	0.0023	µg/m3	SW846 6020A	Filter	07/16/2012
8599934	3	Lead	0.0071	µg/m3	SW846 6020A	Filter	07/16/2012
8599933	4	Arsenic	0.0026	µg/m3	SW846 6020A	Filter	07/17/2012
8599933	4	Lead	0.0052	µg/m3	SW846 6020A	Filter	07/17/2012
8599932	5	Arsenic	0.0034	µg/m3	SW846 6020A	Filter	07/17/2012
8599932	5	Lead	0.011	µg/m3	SW846 6020A	Filter	07/17/2012
8599931	6	Arsenic	0.0023	µg/m3	SW846 6020A	Filter	07/17/2012
8599931	6	Lead	0.0050	µg/m3	SW846 6020A	Filter	07/17/2012
8599929	7	Arsenic	0.0015	µg/m3	SW846 6020A	Filter	07/18/2012
8599929	7	Lead	0.0036	µg/m3	SW846 6020A	Filter	07/18/2012
8599928	8	Arsenic	0.0021	µg/m3	SW846 6020A	Filter	07/18/2012
8599928	8	Lead	0.0061	µg/m3	SW846 6020A	Filter	07/18/2012

SPECTRA LABORATORIES



Steve Hibbs, Laboratory Manager

a8/scj



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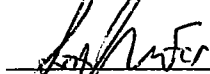
08/03/2012

Point Ruston
5219 N. Shirley St.,
Suite 100
Tacoma, WA 98407

Project: Air Monitoring
Date Received: 07/23/2012
Spectra Project: 2012070489

<u>Client ID</u>	<u>Spectra #</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Matrix</u>	<u>Date Sampled</u>
8599927	9	Arsenic	0.0022	µg/m3	SW846 6020A	Filter	07/18/2012
8599927	9	Lead	0.0055	µg/m3	SW846 6020A	Filter	07/18/2012
8599926	10	Arsenic	0.0040	µg/m3	SW846 6020A	Filter	07/19/2012
8599926	10	Lead	0.0082	µg/m3	SW846 6020A	Filter	07/19/2012
8599925	11	Arsenic	0.0018	µg/m3	SW846 6020A	Filter	07/19/2012
8599925	11	Lead	0.019	µg/m3	SW846 6020A	Filter	07/19/2012
8599924	12	Arsenic	0.0013	µg/m3	SW846 6020A	Filter	07/19/2012
8599924	12	Lead	0.0093	µg/m3	SW846 6020A	Filter	07/19/2012
8599923	13	Arsenic	0.0010	µg/m3	SW846 6020A	Filter	07/20/2012
8599923	13	Lead	0.0043	µg/m3	SW846 6020A	Filter	07/20/2012
8599922	14	Arsenic	0.0012	µg/m3	SW846 6020A	Filter	07/20/2012
8599922	14	Lead	0.0053	µg/m3	SW846 6020A	Filter	07/20/2012
8599921	15	Arsenic	0.0011	µg/m3	SW846 6020A	Filter	07/20/2012
8599921	15	Lead	0.0041	µg/m3	SW846 6020A	Filter	07/20/2012

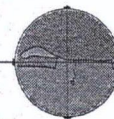
SPECTRA LABORATORIES



Steve Hibbs, Laboratory Manager

a8/scj

CHAIN OF CUSTODY RECORD

POINT
RUSTON5219 N. Shirley St., Suite 100 Tacoma, WA 98407
Phone: 253-752-2185 Fax: 253-752-7083

2012070489

PROJ. NO		PROJECT NAME		NO. OF CONTAINERS		REMARKS													
AIR MONITORING		Pt Ruston LLC		1		H-1-VOL													
SAMPLERS: (Signature)																			
DATE	STA #	TIME	COMP	GRAB	SAMPLE NUMBER														
7/16/12	S.G		X		8599936	1	X												
7/16/12	OCF-VI		X		8599935	1	X												
7/16/12	OCF-NW		X		8599934	1	X												
7/17/12	S.G		X		8599933	1	X												
7/17/12	OCF-VI		X		8599932	1	X												
7/17/12	OCF-NW		X		8599931	1	X												
7/18/12	S.G		X		8599929	1	X												
7/18/12	OCF-VI		X		8599928	1	X												
7/18/12	OCF-NW		X		8599927	1	X												
7/19/12	S.G		X		8599926	1	X												
7/19/12	OCF-VI		X		8599925	1	X												
7/19/12	OCF-NW		X		8599924	1	X												
7/20/12	S.G		X		8599923	1	X												
7/20/12	OCF-VI		X		8599922	1	X												
7/20/12	OCF-NW		X		8599921	1	X												
Relinquished (Signature)			Date/Time			Received by: (Signature)			Lab			Shipped via: FedEx, UPS or Other							
[Signature]			7/23/12 15:31			Marie Holt			Spectra			Air Bill # [Signature]							
Relinquished (Signature)			Date/Time			Received by: (Signature)			Remarks										
Relinquished (Signature)			Date/Time			Received for Laboratory by: (Signature)			Date/Time			Enclosed:							
												<input type="checkbox"/> Parameter List with DTLs <input type="checkbox"/> Cover Letter							
Split Samples:																			
[] Accepted [] Declined																			
Signature																			

PORTABLE
AIR
MONITORING
DATA
(LOW VOLUME)

SPECTRA Laboratories

2221 Ross Way • Tacoma, WA 98421 • (253) 272-4850 • Fax (253) 572-9838 • www.spectra-lab.com

07/17/2012

Point Ruston
5219 N. Shirley St.,
Suite 100
Tacoma, WA 98407

Project: Air Monitoring
Date Received: 07/02/2012
Spectra Project: 2012070018

<u>Client ID</u>	<u>Spectra #</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Matrix</u>	<u>Date Sampled</u>
062512-181	1	Filter weight	0.0645	grams	Gravimetric	Air Cassette	06/25/2012
062512-181	1	Arsenic	< 0.005	µg/m3	SW846 6020A	Air Cassette	06/25/2012
062512-181	1	Lead	< 0.005	µg/m3	SW846 6020A	Air Cassette	06/25/2012
062512-123	2	Filter weight	0.0645	grams	Gravimetric	Air Cassette	06/25/2012
062512-123	2	Arsenic	< 0.005	µg/m3	SW846 6020A	Air Cassette	06/25/2012
062512-123	2	Lead	< 0.005	µg/m3	SW846 6020A	Air Cassette	06/25/2012
062612-719	3	Filter weight	0.0643	grams	Gravimetric	Air Cassette	06/26/2012
062612-719	3	Arsenic	< 0.005	µg/m3	SW846 6020A	Air Cassette	06/26/2012
062612-719	3	Lead	< 0.005	µg/m3	SW846 6020A	Air Cassette	06/26/2012
062612-123	4	Filter weight	0.0644	grams	Gravimetric	Air Cassette	06/26/2012
062612-123	4	Arsenic	< 0.005	µg/m3	SW846 6020A	Air Cassette	06/26/2012
062612-123	4	Lead	< 0.005	µg/m3	SW846 6020A	Air Cassette	06/26/2012
062812-181	5	Filter weight	0.0644	grams	Gravimetric	Air Cassette	06/28/2012
062812-181	5	Arsenic	< 0.005	µg/m3	SW846 6020A	Air Cassette	06/28/2012
062812-181	5	Lead	< 0.005	µg/m3	SW846 6020A	Air Cassette	06/28/2012
062812-719	6	Filter weight	0.0644	grams	Gravimetric	Air Cassette	06/28/2012
062812-719	6	Arsenic	< 0.005	µg/m3	SW846 6020A	Air Cassette	06/28/2012
062812-719	6	Lead	< 0.005	µg/m3	SW846 6020A	Air Cassette	06/28/2012

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Steve Hibbs, Laboratory Manager

a8/scj



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07/17/2012

Point Ruston
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Tacoma, WA 98407

Project: Air Monitoring
Date Received: 07/02/2012
Spectra Project: 2012070018

<u>Client ID</u>	<u>Spectra #</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Matrix</u>	<u>Date Sampled</u>
062912-123	7	Filter weight	0.0643	grams	Gravimetric	Air Cassette	06/29/2012
062912-123	7	Arsenic	< 0.005	µg/m3	SW846 6020A	Air Cassette	06/29/2012
062912-123	7	Lead	< 0.005	µg/m3	SW846 6020A	Air Cassette	06/29/2012
070212-123	8	Filter weight	0.0643	grams	Gravimetric	Air Cassette	07/02/2012
070212-123	8	Arsenic	< 0.005	µg/m3	SW846 6020A	Air Cassette	07/02/2012
070212-123	8	Lead	< 0.005	µg/m3	SW846 6020A	Air Cassette	07/02/2012
070212-181	9	Filter weight	0.0643	grams	Gravimetric	Air Cassette	07/02/2012
070212-181	9	Arsenic	< 0.005	µg/m3	SW846 6020A	Air Cassette	07/02/2012
070212-181	9	Lead	< 0.005	µg/m3	SW846 6020A	Air Cassette	07/02/2012

SPECTRA LABORATORIES



Steve Hibbs, Laboratory Manager

a8/scj

POINT RUSTON

5219 N. Shirley St., Suite 100 Tacoma, WA 98407
Phone: 253-752-2185 Fax: 253-752-7083

20/20 70018

PROJ. NO		PROJECT NAME		NO. OF CONTAINERS		REMARKS														
AIR Monitoring		P + Ruston LLC																		
SAMPLERS: (Signature)																				
DATE	STA #	TIME	COMP	GRAB	SAMPLE NUMBER															
6/25/12	WWpt 65				062512-181	1	X	X												
6/25/12	WWpt 72				062512-123	1	X	X												
6/26/12	WWpt 65				062612-719	1	X	X												
6/26/12	WWpt 70				062612-123	1	X	X												
6/28/12	WWpt 65				062812-181	1	X	X												
6/28/12	WWpt 70				062812-719	1	X	X												
6/29/12	WWpt 70				062912-123	1	X	X												
7/1/12	SAMPLE LOG INFO SHEET (S)																			
7/2/12	WWpt 57				070212-123	1	X	X												
7/2/12	WWpt 70				070212-181	1	X	X												
Relinquished (Signature)			Date/Time			Received by: (Signature)			Lab			Shipped via: FedEx, UPS or Other								
[Signature]			7/2/12 15:00			[Signature]			Spectra			Drop off								
Relinquished (Signature)			Date/Time			Received by: (Signature)			Remarks			Air Bill #								
[Signature]						[Signature]														
Relinquished (Signature)			Date/Time			Received for Laboratory by: (Signature)			Date/Time			Enclosed:								
[Signature]						[Signature]						<input type="checkbox"/> Parameter List with DTLs <input type="checkbox"/> Cover Letter								
Split Samples:																				
[] Accepted [] Declined																				
Signature																				



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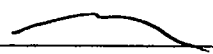
07/31/2012

Point Ruston
5219 N. Shirley St.,
Suite 100
Tacoma, WA 98407

Project: Air Monitoring
Date Received: 07/16/2012
Spectra Project: 2012070302

<u>Client ID</u>	<u>Spectra #</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Matrix</u>	<u>Date Sampled</u>
070312-719	1	Filter weight	0.0318	grams	Gravimetric	Air Cassette	07/03/2012
070312-719	1	Arsenic	< 0.005	µg/m3	SW846 6020A	Air Cassette	07/03/2012
070312-719	1	Lead	0.012	µg/m3	SW846 6020A	Air Cassette	07/03/2012
070512-123	2	Filter weight	0.0326	grams	Gravimetric	Air Cassette	07/05/2012
070512-123	2	Arsenic	0.007	µg/m3	SW846 6020A	Air Cassette	07/05/2012
070512-123	2	Lead	0.025	µg/m3	SW846 6020A	Air Cassette	07/05/2012
070612-719	3	Filter weight	0.0317	grams	Gravimetric	Air Cassette	07/06/2012
070612-719	3	Arsenic	0.006	µg/m3	SW846 6020A	Air Cassette	07/06/2012
070612-719	3	Lead	0.015	µg/m3	SW846 6020A	Air Cassette	07/06/2012
070912-181	4	Filter weight	0.0322	grams	Gravimetric	Air Cassette	07/09/2012
070912-181	4	Arsenic	< 0.005	µg/m3	SW846 6020A	Air Cassette	07/09/2012
070912-181	4	Lead	0.007	µg/m3	SW846 6020A	Air Cassette	07/09/2012
071012-123	5	Filter weight	0.0319	grams	Gravimetric	Air Cassette	07/10/2012
071012-123	5	Arsenic	0.013	µg/m3	SW846 6020A	Air Cassette	07/10/2012
071012-123	5	Lead	0.020	µg/m3	SW846 6020A	Air Cassette	07/10/2012
071112-719	6	Filter weight	0.0324	grams	Gravimetric	Air Cassette	07/11/2012
071112-719	6	Arsenic	0.009	µg/m3	SW846 6020A	Air Cassette	07/11/2012
071112-719	6	Lead	0.021	µg/m3	SW846 6020A	Air Cassette	07/11/2012

SPECTRA LABORATORIES



Steve Hibbs, Laboratory Manager
a8/scj



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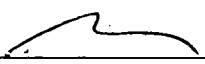
07/31/2012

Point Ruston
5219 N. Shirley St.,
Suite 100
Tacoma, WA 98407

Project: Air Monitoring
Date Received: 07/16/2012
Spectra Project: 2012070302

<u>Client ID</u>	<u>Spectra #</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Matrix</u>	<u>Date Sampled</u>
071212-123	7	Filter weight	0.0321	grams	Gravimetric	Air Cassette	07/12/2012
071212-123	7	Arsenic	< 0.005	µg/m3	SW846 6020A	Air Cassette	07/12/2012
071212-123	7	Lead	0.008	µg/m3	SW846 6020A	Air Cassette	07/12/2012
071312-181	8	Filter weight	0.0320	grams	Gravimetric	Air Cassette	07/13/2012
071312-181	8	Arsenic	< 0.005	µg/m3	SW846 6020A	Air Cassette	07/13/2012
071312-181	8	Lead	0.007	µg/m3	SW846 6020A	Air Cassette	07/13/2012
071612-719	9	Filter weight	0.0322	grams	Gravimetric	Air Cassette	07/16/2012
071612-719	9	Arsenic	0.005	µg/m3	SW846 6020A	Air Cassette	07/16/2012
071612-719	9	Lead	0.019	µg/m3	SW846 6020A	Air Cassette	07/16/2012

SPECTRA LABORATORIES



Steve Hibbs, Laboratory Manager
a8/scj



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Point Ruston
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Suite 100
Tacoma, WA 98407

Project: Air Monitoring
Spectra Project: 2012070302
Final Weights

<u>Sample Number</u>	<u>Control Filter Weight</u>	<u>Test Filter Weight</u>
1	0.0321g	0.0318g
2	0.0324g	0.0326g
3	0.0322g	0.0317g
4	0.0322g	0.0322g
5	0.0321g	0.0319g
6	0.0321g	0.0324g
7	0.0321g	0.0321g
8	0.0319g	0.0320g
9	0.0319g	0.0322g



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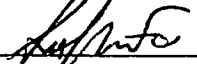
08/06/2012

Point Ruston
5219 N. Shirley St.,
Suite 100
Tacoma, WA 98407

Project: Air Monitoring
Date Received: 07/23/2012
Spectra Project: 2012070469

<u>Client ID</u>	<u>Spectra #</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Matrix</u>	<u>Date Sampled</u>
071712-123	1	Filter weight	0.0322	grams	Gravimetric	Air Cassette	07/17/2012
071712-123	1	Arsenic	< 0.00015	µg/m3	SW846 6020A	Air Cassette	07/17/2012
071712-123	1	Lead	< 0.00015	µg/m3	SW846 6020A	Air Cassette	07/17/2012
071812-181	2	Filter weight	0.0320	grams	Gravimetric	Air Cassette	07/18/2012
071812-181	2	Arsenic	< 0.00015	µg/m3	SW846 6020A	Air Cassette	07/18/2012
071812-181	2	Lead	< 0.00015	µg/m3	SW846 6020A	Air Cassette	07/18/2012
071912-719	3	Filter weight	0.0322	grams	Gravimetric	Air Cassette	07/19/2012
071912-719	3	Arsenic	< 0.00015	µg/m3	SW846 6020A	Air Cassette	07/19/2012
071912-719	3	Lead	< 0.00015	µg/m3	SW846 6020A	Air Cassette	07/19/2012
072012-123	4	Filter weight	0.0321	grams	Gravimetric	Air Cassette	07/20/2012
072012-123	4	Arsenic	< 0.00015	µg/m3	SW846 6020A	Air Cassette	07/20/2012
072012-123	4	Lead	< 0.00015	µg/m3	SW846 6020A	Air Cassette	07/20/2012

SPECTRA LABORATORIES


Steve Hibbs, Laboratory Manager

a8/scj



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Point Ruston
5219 N. Shirley St.
Suite 100
Tacoma, WA 98407

Project: Air Monitoring
Spectra Project: 2012070469
Final Weights

<u>Sample Number</u>	<u>Control Filter Weight</u>	<u>Test Filter Weight</u>
1	0.0317	0.0322
2	0.0325	0.0320
3	0.0319	0.0322
4	0.0321	0.0321

[illegible]

COCForm - 8/07

PERSONAL
AIR
MONITORING
DATA
(EXPOSURE EVALUATIONS)



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08/06/2012

Point Ruston
5219 N. Shirley St.,
Suite 100
Tacoma, WA 98407

Project: Air Monitoring
Sample Matrix: Air Cassette
Date Sampled: 07/25/2012
Date Received: 07/25/2012
Spectra Project: 2012070550

<u>Client ID</u>	<u>Spectra #</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>
072512-181	1	Filter weight	0.0325	grams	Gravimetric
072512-181	1	Arsenic	0.18	µg/m3	SW846 6020A
072512-181	1	Lead	0.19	µg/m3	SW846 6020A
072512-123	2	Filter weight	0.0323	grams	Gravimetric
072512-123	2	Arsenic	0.12	µg/m3	SW846 6020A
072512-123	2	Lead	0.12	µg/m3	SW846 6020A
072512-719	3	Filter weight	0.0322	grams	Gravimetric
072512-719	3	Arsenic	0.046	µg/m3	SW846 6020A
072512-719	3	Lead	0.051	µg/m3	SW846 6020A

SPECTRA LABORATORIES


Steve Hibbs, Laboratory Manager

a7/scj



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Point Ruston
5219 N. Shirley St.
Suite 100
Tacoma, WA 98407

Project: Air Monitoring
Spectra Project: 2012070550
Final Weights

<u>Sample Number</u>	<u>Control Filter Weight</u>	<u>Test Filter Weight</u>
1	0.0322	0.0325
2	0.0320	0.0323
3	0.0320	0.0322

PROJECT NO		PROJECT NAME		NO. OF CONTAINERS		REMARKS	
AIR MONITORING		PT Ruston LLC		1		matched weight filter cassettes	
SAMPLERS: (Signature)							
DATE	STA #	TIME	COMP	GRAB	SAMPLE NUMBER		
7/25/12			✓		072512-181		
7/25/12			✓		072512-123		
7/25/12			✓		072512-719		
7/25/12	SAMPLE LOG & INFO SHEET						
Relinquished (Signature)		Date/Time		Received by: (Signature)		Lab	
[Signature]		7/25/12 15:25		[Signature]		Spectra	
Relinquished (Signature)		Date/Time		Received by: (Signature)		Shipped via: FedEx, UPS or Other	
[Signature]				[Signature]		DROB	
Relinquished (Signature)		Date/Time		Received for Laboratory by: (Signature)		Remarks	
[Signature]				[Signature]			
Relinquished (Signature)		Date/Time		Received for Laboratory by: (Signature)		Enclosed:	
[Signature]				[Signature]		<input type="checkbox"/> Parameter List with DTLs	
						<input type="checkbox"/> Cover Letter	
						Split Samples:	
						[] Accepted [] Declined	
						Signature	

COCForm - 8/07

Monthly Report 194, July 2012
Operable Unit 02
Asarco Tacoma Smelter Site

METHANE
MONITORING
DATA

Gas Monitoring Data Form / Calibration Worksheet

Project Name: Building 2B

Date of Sampling: 7/18/12

Name of Sample Collector: Pat Wilber

Gas Meter Information

Manufacturer: Industrial Scientific Model: M40/SP40 Serial Number: 0806049-984
 Factory/Service Center Calibration Date of Gas Monitor: November 1, 2011 Pump Rate of Gas Meter: .5 SCFH (0.25 LPM)

Calibration Canister Information

Canister I.D. Lot: 1212235 Cyl: 9 Calibration Gas: O₂, LEL, CO, H₂S, N Canister Exp.: Oct 2012

PRE-SAMPLE CALIBRATION:

Date: 7/18/12

Time: 11:50

Sensor SN	Sensor Type	Gas Type	Span Gas	Span Reserve	Passed/Failed	Alarm Low	Alarm High	Alarm TWA	Alarm STEL
806862459	Combustible-LEL	Methane	50	101	✓				
805823354	Hydrogen Sulfide	Hydrogen Sulfide	25	54	✓				
180339703081	Oxygen	Oxygen	19	30.2	✓				

SAMPLING RECORD:

Temperature: 74.8 Barometric Pressure: 30.09 Ground Conditions: Wet

Precipitation: 0 Tidal Conditions: Low

Wind Speed: Direction: Other Relevant Conditions: Overcast

Location Well ID#	Sample Tube Purge (12N)	Start Time	Stop Time	Initial % LEL	Stabilized % LEL	% CH ₄ By Volume	% O ₂	H ₂ S (ppm)	Notes
2BW001		12:30	12:40	0	0	0	20.3	0	
2BW002		12:42	12:52	0	0	0	20.7	0	
2BW003		12:54	13:04	0	0	0	17.3	0	
2BW004		13:06	13:16	0	0	0	14.8	0	
BBB289		13:19	13:29	0	0	0	15.7	0	
BBB290		13:31	13:41	0	0	0	11.6	0	
BCN914		13:43	13:55	0	0	0	17.4	0	
BCN915		14:03	14:13	0	0	0	13.6	0	

Certification:

To the best of my knowledge, the information reported and statements made on this data submittal and attachments are true and correct.

SIGNATURE:

DATE: 7/18/12

METHANE MONITORING - DATA LOG

Point Ruston, LLC

Building 2B

Period	Well Location	Date Time	Temperature °C	Hydrogen Sulfide			Oxygen Reading	Combustible LEL (Methane) Reading
				Reading	TWA	STEL		
1	Calibrate	7/18/2012 11:53	22	0	0	0	20.9	0
2	Calibrate	7/18/2012 11:55	23	0	0	0	20.9	0
3	2BW001	7/18/2012 12:31	27	0	0	0	20.9	0
3	2BW001	7/18/2012 12:32	28	0	0	0	20.3	0
3	2BW001	7/18/2012 12:33	28	0	0	0	20.2	0
3	2BW001	7/18/2012 12:34	28	0	0	0	20.3	0
3	2BW001	7/18/2012 12:35	28	0	0	0	20.3	0
3	2BW001	7/18/2012 12:36	28	0	0	0	20.3	0
3	2BW001	7/18/2012 12:37	28	0	0	0	20.3	0
3	2BW001	7/18/2012 12:38	28	0	0	0	20.3	0
3	2BW001	7/18/2012 12:39	28	0	0	0	20.3	0
3	2BW001	7/18/2012 12:40	28	0	0	0	20.3	0
3	2BW001	7/18/2012 12:41	28	0	0	0	20.3	0
3	2BW001	7/18/2012 12:42	28	0	0	0	20.3	0
4	2BW002	7/18/2012 12:45	27	0	0	0	20.9	0
4	2BW002	7/18/2012 12:46	27	0	0	0	20.9	0
4	2BW002	7/18/2012 12:47	27	0	0	0	20.9	0
4	2BW002	7/18/2012 12:48	27	0	0	0	20.9	0
4	2BW002	7/18/2012 12:49	27	0	0	0	20.9	0
4	2BW002	7/18/2012 12:50	27	0	0	0	20.9	0
4	2BW002	7/18/2012 12:51	27	0	0	0	20.9	0
4	2BW002	7/18/2012 12:52	28	0	0	0	20.7	0
4	2BW002	7/18/2012 12:53	28	0	0	0	20.7	0
4	2BW002	7/18/2012 12:54	28	0	0	0	20.7	0
5	2BW003	7/18/2012 12:56	27	0	0	0	20.9	0
5	2BW003	7/18/2012 12:57	27	0	0	0	17.4	0
5	2BW003	7/18/2012 12:58	27	0	0	0	17.4	0
5	2BW003	7/18/2012 12:59	28	0	0	0	17.3	0
5	2BW003	7/18/2012 13:00	28	0	0	0	17.3	0
5	2BW003	7/18/2012 13:01	28	0	0	0	17.3	0
5	2BW003	7/18/2012 13:02	28	0	0	0	17.3	0
5	2BW003	7/18/2012 13:03	28	0	0	0	17.3	0
5	2BW003	7/18/2012 13:04	28	0	0	0	17.3	0
5	2BW003	7/18/2012 13:05	28	0	0	0	17.3	0
6	2BW004	7/18/2012 13:09	28	0	0	0	20.1	0
6	2BW004	7/18/2012 13:10	28	0	0	0	14.8	0
6	2BW004	7/18/2012 13:11	28	0	0	0	14.7	0
6	2BW004	7/18/2012 13:12	28	0	0	0	14.7	0
6	2BW004	7/18/2012 13:13	28	0	0	0	14.7	0
6	2BW004	7/18/2012 13:14	28	0	0	0	14.7	0
6	2BW004	7/18/2012 13:15	28	0	0	0	14.7	0
6	2BW004	7/18/2012 13:16	28	0	0	0	14.7	0
6	2BW004	7/18/2012 13:17	28	0	0	0	14.8	0
6	2BW004	7/18/2012 13:18	28	0	0	0	14.8	0
7	BBB289	7/18/2012 13:22	27	0	0	0	19.7	0
7	BBB289	7/18/2012 13:23	28	0	0	0	17.9	0
7	BBB289	7/18/2012 13:24	28	0	0	0	15.3	0
7	BBB289	7/18/2012 13:25	28	0	0	0	15.6	0
7	BBB289	7/18/2012 13:26	28	0	0	0	15.6	0

Month of July 2012

METHANE MONITORING - DATA LOG

Point Ruston, LLC

Building 2B

Period	Well Location	Date Time	Temperature °C	Hydrogen Sulfide			Oxygen Reading	Combustible LEL (Methane)
				Reading	TWA	STEL		Reading
7	BBB289	7/18/2012 13:27	29	0	0	0	15.6	0
7	BBB289	7/18/2012 13:28	29	0	0	0	15.7	0
7	BBB289	7/18/2012 13:29	29	0	0	0	15.7	0
7	BBB289	7/18/2012 13:30	29	0	0	0	15.7	0
7	BBB289	7/18/2012 13:31	29	0	0	0	15.7	0
8	BBB290	7/18/2012 13:34	29	0	0	0	19.6	0
8	BBB290	7/18/2012 13:35	29	0	0	0	15.6	0
8	BBB290	7/18/2012 13:36	29	0	0	0	11.8	0
8	BBB290	7/18/2012 13:37	29	0	0	0	11.7	0
8	BBB290	7/18/2012 13:38	29	0	0	0	11.7	0
8	BBB290	7/18/2012 13:39	30	0	0	0	11.6	0
8	BBB290	7/18/2012 13:40	30	0	0	0	11.6	0
8	BBB290	7/18/2012 13:41	30	0	0	0	11.6	0
8	BBB290	7/18/2012 13:42	30	0	0	0	11.6	0
8	BBB290	7/18/2012 13:43	30	0	0	0	11.6	0
9	BCN914	7/18/2012 13:46	30	0	0	0	19.1	0
9	BCN914	7/18/2012 13:47	30	0	0	0	20.7	0
9	BCN914	7/18/2012 13:48	30	0	0	0	17.4	0
9	BCN914	7/18/2012 13:49	30	0	0	0	17.7	0
9	BCN914	7/18/2012 13:50	31	0	0	0	17.6	0
9	BCN914	7/18/2012 13:51	31	0	0	0	17.6	0
9	BCN914	7/18/2012 13:52	31	0	0	0	17.6	0
9	BCN914	7/18/2012 13:53	32	0	0	0	17.6	0
9	BCN914	7/18/2012 13:54	32	0	0	0	17.6	0
9	BCN914	7/18/2012 13:55	32	0	0	0	17.6	0
9	BCN914	7/18/2012 13:57	33	0	0	0	17.6	0
9	BCN914	7/18/2012 13:58	33	0	0	0	19.2	0
10	BCN915	7/18/2012 14:06	32	0	0	0	20.3	0
10	BCN915	7/18/2012 14:07	32	0	0	0	13.4	0
10	BCN915	7/18/2012 14:08	32	0	0	0	13.7	0
10	BCN915	7/18/2012 14:09	32	0	0	0	13.6	0
10	BCN915	7/18/2012 14:10	32	0	0	0	13.6	0
10	BCN915	7/18/2012 14:11	32	0	0	0	13.6	0
10	BCN915	7/18/2012 14:12	32	0	0	0	13.6	0
10	BCN915	7/18/2012 14:13	33	0	0	0	13.6	0
10	BCN915	7/18/2012 14:14	33	0	0	0	13.6	0
10	BCN915	7/18/2012 14:15	33	0	0	0	13.6	0

Month of July 2012

MISCELLANEOUS

TEST

SAMPLING

DATA

(SOIL – DEBRIS – WATER – ETC.)



SPECTRA Laboratories

JUL 23 2012

2221 Ross Way • Tacoma, WA 98421 • (253) 272-4850 • Fax (253) 572-9838 • www.spectra-lab.com

07/18/2012

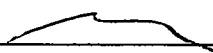
Point Ruston
5219 N. Shirley St.,
Suite 100
Tacoma, WA 98407

Project: Water Walk
Client ID: WWTS-SAM-01-A1
Sample Matrix: Soil
Date Sampled: 07/06/2012
Date Received: 07/06/2012
Spectra Project: 2012070112
Spectra Number: 1

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>
Diesel	<10.0	mg/Kg	NWTPH-D
Oil	<100	mg/Kg	NWTPH-D
Total Arsenic	5	mg/Kg	SW846 6010B
Total Lead	14	mg/Kg	SW846 6010B
PCB	<0.01	mg/Kg	SW846 8082A

<u>Surrogate</u>	<u>Recovery</u>	<u>Method</u>
p-Terphenyl	107	NWTPH-D
Decachlorobiphenyl	76	SW846 8082A

SPECTRA LABORATORIES


Steve Hibbs, Laboratory Manager
a6/jjb

2012070112

5219 N. Shirley St., Suite 100 Tacoma WA 98407

Phone: 253-752-2185 Fax: 253-752-7083

[illegible]

MRC Constructon, LLC (XRF)

Haul Roads

(Samples from Haul Roads Adjacent to Transition Zones)

Sample Date (or) Reading No.	Sample/Reading Time	Type	Duration	Units	Sequence	Sample Number	Site Code	Sample Depth	Subunit	Sample Type	Pb	As
3	7/17/2012 14:09	BULK	90	ppm	Final	WWALK-FYI-01-A1	WWALK	A	1		31.31	19.19
4	7/17/2012 14:55	BULK	90	ppm	Final	WWALK-FYI-02-A1	WWALK	A	2		57.46	79.48
7	7/18/2012 8:56	BULK	90	ppm	Final	WWALK-FYI-03-A1	WWALK	A	3		22.27	10.56
8	7/18/2012 9:41	BULK	90	ppm	Final	WWALK-FYI-04-A1	WWALK	A	4		18.56	3.23

MRC Constructon, LLC (XRF)

Building 2A Sewer/Storm Trench

(Samples from Building 2A Sewer/Storm Connector Trench)

[illegible]

MRC Constructon, LLC (XRF)

Proposed Walking Path

(Samples from Test Pit NE of Bennett)

Sample Date (or) Reading No.	Sample/Reading Time	Type	Duration	Units	Sequence	Sample Number	Site Code	Sample Depth	Subunit	Sample Type	Pb	As
4	7/24/2012 11:12	BULK	90	ppm	Final	PATHTP-FYI-01-C1	PATHTP	C	1	1'	25.97	18.13
5	7/24/2012 12:01	BULK	90	ppm	Final	PATHTP-FYI-01-E1	PATHTP	F	1	2'	39.19	24.45
6	7/24/2012 12:54	BULK	90	ppm	Final	PATHTP-FYI-01-H1	PATHTP	H	1	3'	14.12	7.03
7	7/24/2012 13:39	BULK	90	ppm	Final	PATHTP-FYI-01-J1	PATHTP	J	1	4'	17.84	13.84
8	7/24/2012 14:25	BULK	90	ppm	Final	PATHTP-FYI-01-L1	PATHTP	L	1	5'	24.7	11.38



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08/10/2012


Point Ruston
5219 N. Shirley St.,
Suite 100
Tacoma, WA 98407

Project: PT Ruton LLC Barge 48
Client ID: CPDP-SAM-53-A1
Sample Matrix: Solid
Date Sampled: 07/30/2012
Date Received: 07/30/2012
Spectra Project: 2012070617
Spectra Number: 1

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>
Diesel	<10.0	mg/Kg	NWTPH-D
Oil	<100	mg/Kg	NWTPH-D
Total Arsenic	< 5	mg/Kg	SW846 6010B
Total Lead	< 4	mg/Kg	SW846 6010B
PCB	<0.01	mg/Kg	SW846 8082A

<u>Surrogate</u>	<u>Recovery</u>	<u>Method</u>
p-Terphenyl	102	NWTPH-D
Decachlorobiphenyl	87	SW846 8082A

SPECTRA LABORATORIES


Steve Hibbs, Laboratory Manager
a6/jjb

Page 1 of 1

[illegible]

COCForm - 8/07